

## ETN Monthly News Summary – November 2013

### CALL FOR PAPERS – 7<sup>th</sup> INTERNATIONAL GAS TURBINE CONFERENCE (IGTC)

Last chance to submit abstracts for the 7<sup>th</sup> International Gas Turbine Conference! The final deadline is **15 December 2013**.

Review Papers, Case Study Papers and Technical Papers are welcome in the following areas:

- Flexible Operation & Fuel Flexibility
- Plant and System Integration
- Electricity Operator Priorities
- Oil & Gas Operator Priorities
- Materials
- Turbomachinery
- Manufacturing and Repair
- Combustion

For more information about the topics and the submission procedure, please see the Call for Papers or contact the ETN office. You can as well visit the IGTC-14 webpage, by clicking here.

### FILTRATION WORKSHOP

Due to high interest to the **Air Filtration Workshop**, ETN has decided to host the event at an external location able to accommodate higher amount of participants. Therefore, ETN is still allowing participants to register for the Workshop, set to take place on Thursday 20 February 2014.

#### **The objective of this Air Filtration Workshop is to:**

1. Inform you about the current available standards EN779:2012 and EN1822:2009, its value and shortcomings;
2. Bring to your attention that real life situations will be completely different than the results from above lab tests;
3. Discuss what kind of test you feel necessary to make sure that the products would fulfill your current and future needs;
4. Discuss the possibility to set up a standard test on a filter system, to be better addressed for the GT industry;
5. Inform you of the value of an air filtration system on your Capex and Opex.

#### **Course details:**

- **Date and time:** 20 February 2014, from 09:00 – 16:00 – lunch and coffee included
- **Location:** Brussels, Belgium (venue to be confirmed)
- **Price:** ETN members: free. Non-ETN member: 85.00 EUR
- **Target audience:** operational staff (maximum 2 representatives per organisation)

#### **Registration:**

To register to the Workshop, please send an email to Ioli Dodi before **2 January 2014**.

### **SUMMARY OF CHRISTER BJORKQVIST'S MEETINGS IN CHINA**

Christer Björkqvist, ETN Managing Director completed in November two trips in China, first as an invited speaker to the GT World China Summit and then as part of an EU delegation to explore potential cooperation opportunities with China in the field of Concentrated Solar Power GT systems. "It has been two very interesting trips which have provided ETN with interesting market information as well as valuable connections within the Ministry of Science and Technology (MOST)", says Mr. Björkqvist.

China's Minister of Environmental Protection, Zhou Shengxian, has stated that tackling air, water and soil pollution is a top priority for the government in the next five years. We are all aware that China is the world's leading primary energy consumer, but what is very interesting and quite unexpected is their announcement of a "low carbon-roadmap". With more than 70% coal fired generation, China is suffering from high levels of air pollution, especially in its major cities (160 cities >1M population) and also has high international pressure to reduce its CO<sub>2</sub> emissions. As a result, China has now implemented an ambitious national strategy for energy conservation and CO<sub>2</sub> mitigation. This includes a plan to reduce emissions with 25% from today's level within the next 5 years as a first step. This also includes a plan to reduce fossil energy demand, especially by recycling construction materials and replacing the most inefficient coal plants with gas turbines as well as building more IGCC (capture ready) plants that could be used with CCS in the second phase. China will start carbon emissions trading in Beijing, Shanghai and Guangdong province by the end of this year. Based on the performance of these local markets, a national-level emissions trading platform may be set-up by 2015. Additionally, 32 nuclear plants are also under construction which will increase nuclear energy production from 2% to 6% in the energy mix. With regards to renewable energy, China had an installed capacity of 300 GW in the beginning of 2012, which is already twice the US capacity at this time. The majority of the renewable production comes from hydropower stations and wind turbines, however photovoltaic production from solar farms has now started to increase as manufacturers are taking advantage of a new package of government subsidies that plans to quadruple solar generating capacity to 35 gigawatts (GW) by 2015. However, in the overall energy mix, renewable power and nuclear still play a smaller role. Therefore, in order to achieve their targets to cut emissions in the next 5 years, it would require quite a drastic shift from coal to natural gas feed generation, which makes the Chinese market very interesting from a gas turbine perspective. A high level representative from MOST has accepted to come and speak at ETN's International Gas Turbine Conference in October 2014.

### **7<sup>th</sup> INTERNATIONAL GAS TURBINE CONFERENCE (IGTC) – SPONSORSHIP OPPORTUNITIES**

**Sponsorship opportunities for the IGTC-2014 to be held on 14-15 October 2014 are available.** As a member of ETN you have preferential access to the various sponsorship packages that are available for the IGTC-14, before they are opened to the wider gas turbine community in 2014. We offer several Sponsorship Packages, as well as flexible options that should correspond to your specific needs for visibility. You can view the Sponsorship Information Package by [clicking here](#). Please contact the ETN office should your organisation be interested in sponsoring the IGTC-2014.

### **ETN-IEA WORKSHOP: THE SUMMARY IS AVAILABLE ON ETN WEBSITE**

To strengthen the **cooperation between the International Energy Agency and ETN**, ETN was invited to participate in a workshop to review the final draft of the chapter on gas power technologies in IEA's Energy Technology Perspectives 2014. The Workshop took place on 8 October 2013 in London, UK. The summary is available on the event section of the ETN website or you can view it by [clicking here](#).

### **TECHNICAL COMMITTEE AND PROJECT UPDATES**

**Condition Based Monitoring Questionnaire:** During the October Workshop, Christoforos Romesis (NTU Athens) presented a project proposal to develop a customisable CBM tool, featuring all state-of-the-art approaches on Engine Modeling, Health Assessment and Asset Management. The aim would be to have a customisable tool which users of GTs could tailor to their application.



Following-up on the discussion, NTUA and Cranfield University created a questionnaire in which ETN members could clearly indicate what they would need from the proposed system. The main goal of the questionnaire is to reveal any technological gap that could be addressed through a CBM related project, by mapping current practices and available tools in gas turbine plants condition monitoring and identifying related issues of interest.

ETN would like to encourage all its users and OEMs, R&D institutes, suppliers and service providers to complete the relevant questionnaire and send it back to the ETN Office by 15 December 2013.

**Overview of the HYCOSOL Project Proposal:** Following the discussions during the “Hybridisation of CSP systems with other energy sources” session at the October Workshop, James Spelling (KTH) made an executive summary of the previously submitted HYCOSOL proposal. It is expected that there will be a call under the Horizon 2020 funding programme under which an improved version of the proposal could be submitted. We would like to encourage all members interested in joining the consortium to contact the ETN Office, shortly outlining their potential contributions to a future project proposal.

### **POLICY UPDATES**

**Horizon 2020:** On 21 November 2013, the European Parliament approved Horizon 2020, the funding programme for research and innovation for the 2014-2020 period. The same day, the European Commission published the draft Work Programmes (WP) (including the WP on Secure, Clean and Efficient Energy), although these documents are subject to change before their formal adoption by Member States. Even though these documents are still in a draft format, they give a good indication of the final 2014-2015 work programmes, which will be published on 11 December.

**EU budget for 2014-2020 approved:** On 2 December, the European Council adopted the Multiannual Financial Framework for 2014-2020. This follows the European Parliament's approval of 19 November 2013. This decision marks the end of two and a half years of intense negotiations and allows the new EU spending programmes to be implemented as from 1 January 2014.

### **PLEASE NOTE THE FOLLOWING UPCOMING GT EVENTS**

#### **ETN events:**

- **Filtration Workshop:** 20 February 2014, Brussels, Belgium
- **ETN AGM and Workshop:** 2-3 April 2014, Paris, France (kindly hosted by Total)
- **International Gas Turbine Conference (IGTC) 2014:** 14-15 October 2014, Brussels, Belgium

#### **ETN meetings:**

- **H2-IGCC Meeting:** 2-3 December 2013, Cranfield, UK (kindly hosted by Cranfield University)
- **ETN Board Meeting:** 9-10 December 2013, Brussels, Belgium
- **OMSoP Consortium Meeting:** 16-17 December 2013, Brussels, Belgium
- **Conference Advisory Board Meeting:** 22 January 2014, Brussels, Belgium
- **H2-IGCC Final Meeting:** 13-14 May 2014, Brussels, Belgium (kindly hosted by Laborelec)

***ETN's News Summary is distributed internally to ETN members at the end of each month.***

***ETN's Quarterly Newsletter is circulated to members and external contacts every quarter. The next edition will be January – March 2014.***